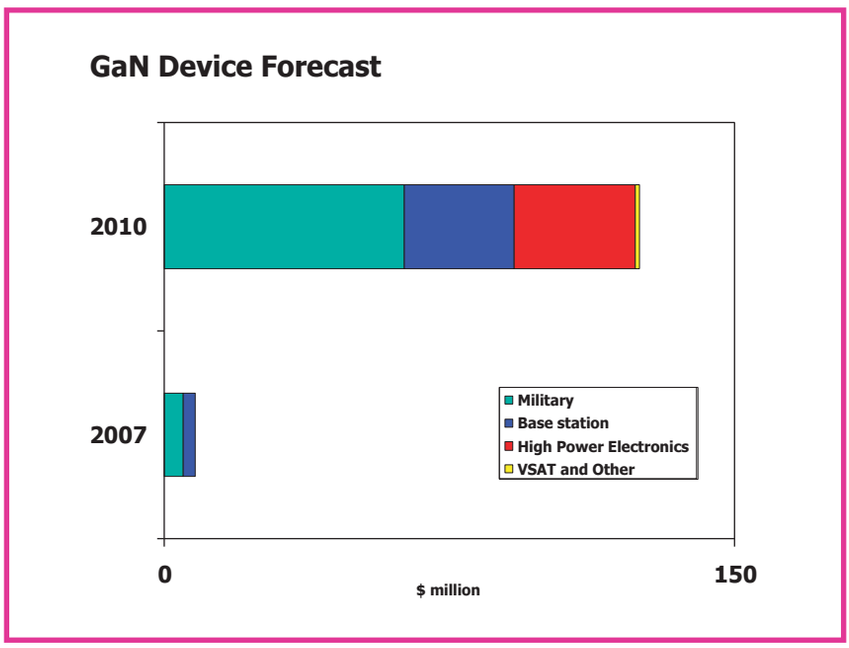
GaN – early commercial opportunities lie in high power electronics



Military and high power electronic applications will be the catalysts for the development of a gallium nitride (GaN) device market through to 2010, according to Strategy Analytics. A recent study finds that commercial wireless infrastructure applications will also drive demand in the future. The report forecasts that the total market for GaN microelectronic devices will grow at a CAGR of 151% through 2010.

"The military and high power electronics markets both have future needs that will make use of the advantages offered by wide bandgap materials such as GaN; and this will help the developing GaN device market," observes Asif Anwar, Director of the Strategy Analytics GaAs service.

"On the other hand, the needs of the commercial telecommunications wireless market have yet to really place the incumbent technologies, Si LDMOS and GaAs pHEMT under major competitive strain although GaN will start to penetrate these markets over the next few years regardless."

"Future GaN device production will continue to be centred around non-native substrates," notes Stephen Entwistle, VP of the Strategic Technologies Practice at Strategy Analytics. "We expect SiC material will continue to be the primary substrate of choice, while silicon substrates will also gain traction."

Strategy Analytics' 68-page report, "Gallium Nitride Markets: Commercial Markets Driven by Power Electronics" by Asif Anwar, forecasts the market and applications for GaN microelectronic devices.

For more details, visit: www.strategyanalytics.net

AOT licenses technology from Toyoda Gosei

In mid-June Advanced Optoelectronic Technology (AOT), a Taiwan-based LED packaging house, said it had reached an agreement for licensing white-LED chip technology from Toyoda Gosei. This will enable AOT to expand operations overseas.

Last March, AOT signed a cross-licensing agreement for white SMD LEDs with US-based Intematix. Under that agreement, AOT can make white LEDs based on Intematix-patented technology, whereby blue InGaN LEDs combine with suitable fluorescent converters.

For more details, visit: www.aot.com.tw